

THE O.A.C. REVIEW



ONTARIO
AGRICULTURAL
COLLEGE

VOL. XLVI

OCTOBER, 1933

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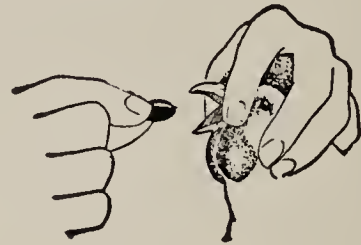
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The O.A.C. Review

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THE O. A. C. REVIEW is published eight months of the year by the students of the Ontario Agricultural College.

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No. 1

WITH this issue of the *Review*, the magazine enters upon its forty-sixth year of publication. According to reliable information, the paper has the distinction of being the oldest active agricultural college magazine on this continent, and, needless to say, its history is an interesting one.

When the *Review* first appeared in November 1889, under the editorship of H. H. Dean, retired head of the Department of Dairying, the College was composed of a main building (old Johnston Hall) a chemical laboratory, a small dairy building and a few farm structures. The magazine itself was a very creditable, eight-page paper, carrying several feature articles of wide interest, a vigorous Alumni section and a flourishing College Life department in which, among other things, it is recorded that "the boys appreciate the advent of saucer dishes on the supper tables, and are also glad to have their porridge better cooked," all of which goes to prove that there is nothing new in the world.

Since that date the attendance at the O. A. C. has increased from about ninety to almost six hundred, and the College has become the greatest of its kind in the British Empire. During this period, the *Review* has experienced all the fortunes that might beset the life of a man of equal age, but always in its pages one may see a complete cross-section of student life and interests down through the years, and

view all the events and personalities that have helped to build up College traditions that are worthy of loyal support.

This year plans have been made to bring the Alumni Section back to something of the high standard it had during the war years, and as the *Review* now has the pleasure of welcoming all the students of Macdonald Institute as subscribers, an effort is being made to enlarge their interests in the paper.

In this effort to make the *Review* a truly institutional magazine, representing and appealing equally to the interests of the O. A. C., Macdonald, and the Almuni, the staff requests the support and co-operation of both students and graduates who may be able to assist them by contributing any interesting information that they feel would appeal to the other readers.

To Freshmen and Others

IT TAKES all kinds of people to make a world, - - and a class of Freshmen: and like the world, it takes all kinds of time, effort and brains to get the Freshman Class working together for their common good.

The first serious responsibility that any new class must face is that of electing competent leaders to office. These officials must undertake the difficult task of organizing over one hundred men into a harmonious and enthusiastic unit, and then fit them into the larger social life of the College. This work is not child's play. It requires steady level-headed men, who, whether they have had any previous executive experience or not, have a sense of responsibility toward their classmates, and are willing to undertake work that will, no doubt, be of more value to them in later life than many of the things they will pick up in the classroom.

The Freshmen have many apparent hardships to put up with, but they can make their lot a great deal easier, both for the first and later years, by seeing that only the best men are elected to office. Above all, they should avoid choosing men with loud voices and nothing to say, or those who have not been away from home long enough to know the meaning of discipline. Both types are to be found in every first year class, and although they are either extinct or reformed in a year or two, they are the worst enemies that the Frosh have to contend with in getting their good name established.

Rothamsted Experiment Station

Its Growth and Work Outlined by Sir John Russell, O.B.E.,
D. Sc., F.R.S., in an Address given before the Faculty
on August 10, 1933

THE old saying that history repeats itself is very clearly illustrated in the parallels that exist between world conditions in the years 1833 and 1933. A century ago, England was facing a similar business depression to that from which the world is just emerging. Her population had increased at a phenomenal rate, and hence, labour was very cheap. The war with France, besides throwing the country into debt and making high taxes necessary, had forced the prices of commodities up beyond all reason. On top of all these difficulties, too, the Industrial Revolution had brought about great over-production, with the result that the markets were glutted, and thousands were unemployed.

It was during this time that John Bennet Lawes, the owner of the Rothamsted estates, realized that something would have to be done in order to make the land produce more efficiently and profitably if he were to keep his property, and more important, if the rapidly-increasing population were to be fed. Until that time, farmyard manure, hair and bones had been the chief sources of food for the land, and efficient though they were, increased production was seriously hampered by their scarcity. Little, too, was known about them, other than that their application had a beneficial effect upon subsequent crops, so it was upon this rather meagre knowledge that Lawes began his work.

Biologists by this time had discovered the elements necessary for plant growth, and knew from whence these substances were derived. Lawes, therefore, worked on these findings, and reasoned that if nitrogen from the soil was required for growth, any nitrogen-containing compound should be beneficial to the plant. This idea was soon acted upon, and sulphate of ammonia, then an useless byproduct in the manufacture of gas, was tried. So satisfactory were the results that Lawes immediately continued his experiments with phosphorus and potash. The substance that was first used to supply phosphorus was calcium phosphate, an insoluble compound. This, of course, was not

available, but when Lawes recognized the difficulty, he overcame it by treating the phosphate with sulphuric acid to make it soluble, a process that he patented in 1842, and from which the modern commercial fertilizer industry has grown. Potash was supplied from wood ashes, and thus Lawes became the first man to realize the value of, and use a complete fertilizer.

These experiments had been laid down on large plots at Rothamsted, and although the sections that had received complete fertilization showed up in marked contrast to those which were unmanured in any way, or had been incompletely fertilized, the farmers, who were always welcome to see the work, were skeptical of the long-time results. Lawes did not agree that the land in time would fail to stand up, and to prove this to his own satisfaction he continued to give each plot the same treatment, year after year. So, through the regime of Lawes and his co-worker Gilbert, under the leadership of Sir Daniel Hall, and up to the present day, these experiments have been faithfully replicated. The famous Broadbalk wheat field is this year producing its nintieth successive crop, the barley plots are in the eightieth year and the mangolds have been in the same location, and have received the same treatment for seventy years.

The question often arises, why continue these experiments? Surely the results are obvious enough by this time. This is quite true, but today these plots are unique; nowhere in the world are conditions of plant malnutrition so intensified as they are at Rothamsted, and no one, once seeing a plot of grain on which no nitrogen has been applied since 1839, could fail to recognize a condition of nitrogen starvation if they ever saw one again. The same might be said of phosphorus and potash deficiencies, hence the demonstration is of great value to students, county agricultural representatives and others interested in plant growth.

The fields are also of inestimable value to the research specialists in plant chemistry, physiology, pathology and other plant sciences. The starved plants are very sensitive to any abnormal conditions, and make excellent subjects of study in connection with plant growth and composition, reaction to environment, disease resistance and other matters of scientific and economic importance.

Lawes and his colleague, Gilbert, worked together at Rothamsted for sixty years, the longest scientific partnership on record. Lawes personally footed the entire expenses during this time, and before his death, set up a trust fund of £100,000, to carry the work to perpetuity. The information gathered was given freely to those who asked, and in

1855 the farmers of England joined to erect, at the station, the first scientific laboratory to be built by public subscription.

Today, the work at Rothamsted covers the production and utilization of crops to a point where the expert can take over the work. Thus, for example, the wheat experiments are carried on in conjunction with the miller's research institutes and the barley breeding in connection with the laboratories of the brewing organizations. Before any Rothamsted product is introduced to Agriculture, therefore, it must have some utility other than yield per acre.

The aim or purpose of the work at the Station, has always been to obtain knowledge; accurate knowledge of plants and soils, rather than to show the farmer how to make more money. The reason for this is that knowledge is permanent, while practical advice must change from farm to farm and from year to year. Finally, out of the body of information obtained, dealing with the habits of the plant and the modifications due to environment, soil, weather or other conditions, the policy has always been to draw certain broad rules which the county agents, farmers and others can use as foundations on which to build up recommendations to meet their own particular conditions of time and place.

There is no such thing as a definite conclusion in this kind of work. Field conditions vary too greatly, and are too hard to define, therefore, the limits within which the results will hold must be given. At Rothamsted no results are forwarded unless it can be said that given "such and such" conditions, you can expect "such and such" results, and the odds are at least twenty to one that you will get them. The farmer then knows the statistical truth, and if he is prepared to take this chance, he does so and has no come-back in case of failure.

The fact that all Rothamsted results are statistically interpreted necessitates that the field work be adapted to this method. The old system of large plots with no duplication of experiments, while excellent from a demonstration point of view, involves such a large area of land that any difference that might appear between treatments or varieties could be more easily caused by soil variations than by any other factor.

The method adopted to overcome this difficulty involves two things, namely: Replication, or the repeating of each experiment on a small scale a sufficient number of times to reduce any error to an insignificant figure, and Randomization, or the placing of each experiment in the field in some order that depends entirely on chance. It is

only by following this plan that accurate results can be had, and most important of all, results with a known accuracy.

Although this system of replication and randomization has only been in use within comparatively recent years, very careful records have been kept since the beginning of the station. All the routine determinations are made by highly skilled technicians who perform the same work year after year. Through repetition their work becomes almost perfect, and any inaccuracy that may exist is so uniform from year to year that over the long period it becomes insignificant. These men begin their training for this work at about fourteen years of age, by doing the preparatory steps prior to the actual determinations, and they gradually work into positions of responsibility. It is a Rothamsted tradition that no one has ever been discharged from the Station. The problem of having too many budding technicians in the service therefore, is overcome by employing a large percentage of good-looking girls to assist in the preparatory work;—so far this policy has worked out remarkably well.

Needless to say, a great deal of data has been accumulated during the history of the station, and at present statisticians are examining this great mass of facts in an effort to discover the relationships that exist in the records. Some of their most recent work has been the linking up of crop yield with variations in weather, as influenced by cultural practices. While many interesting scientific problems have arisen from this study, the practical outcome will be of two-fold benefit to the farmer: Firstly, the Station will be able to advise him, with some degree of accuracy, what fertilizers or other treatments of his crops or soil will be of greatest advantage under his conditions of weather, and secondly, from the data prepared, it will be possible to foretell the crop results for the year. In both cases it will be noted that an accurate knowledge of the weather conditions for the coming year, must first be had. At the present date such information is not available, but it will not be long before meteorologists will be able to make general forecasts, and the Station will then be able to make general recommendations and crop predictions from the combined data. Even now crop statistics are being worked out at Rothamsted, similar to the expectancy of life tables of the insurance companies, and as soon as the meteorologists are ready, crop production will become an insurable risk: - - truly a remarkable development for Agriculture.

Although plant feeding and many problems associated with it were the first interests at Rothamsted, the soil studies at the Station are

today receiving a great deal of attention. Much research is being done to discover the relationship between soil and the other factors necessary for growth, such as, water, plant food and air. Other investigators are attempting to find as much as possible about the nature of soils with regard to their structure and ability to form a tilth; all studies that have raised many problems for the scientist to solve, and whose practical application has been of great value to the farmer.

Another important department is concerned with the facts regarding the feeding of the plant in nature. This work was started at Rothamsted, and deals with the many problems associated with green manuring and soil inoculation.

Pathology, too, now occupies an important place at Rothamsted. The studies, however, are all concerned with the relation of the pathogen to the host, and the data gathered on how the organism gains a footing in the plant, and how it spreads, is turned over to the specialist, who uses it in devising practical remedies for the various diseases investigated.

It must be realized that anything but a very general account of the work being carried on at the Station would make a very lengthy recital, and for this reason it is impossible to go into any details concerning it. The whole work at Rothamsted, however, may be summed up by saying that, extensive as the interests are, all the experimentation is done with a common object in view; that of obtaining facts, and further, facts of a known accuracy, which the scientist, the student and the farmer can use in the building of a better agriculture.

AN OLD LANDMARK

Near the foot of the campus, and directly down from the front of the Administration Building, stands an ancient sugar maple whose far-flung shade has cooled the studious brows of every generation of students since the beginning of time. Here too, many a man and maid have lingered long and dreamed of future bliss.

Every student should make acquaintance with the grand old tree, and visitors who are not familiar with the place will be interested to see the only remaining tree that stood on the campus when the property was purchased by the Ontario Government in 1873.

College Team Wins World Title

Business and Pleasure Very Successfully Combined by Student Judges at Regina

IF ONTARIO Agriculture has any short comings, they are certainly not to be found in the training given to its future leaders at the O. A. C. On top of an already outstanding year of scholastic and athletic achievement, it remained for Bruce Cohoe and Norm. Hogg of



A WORTHY PRIZE

The College now has permanent possession of this trophy.

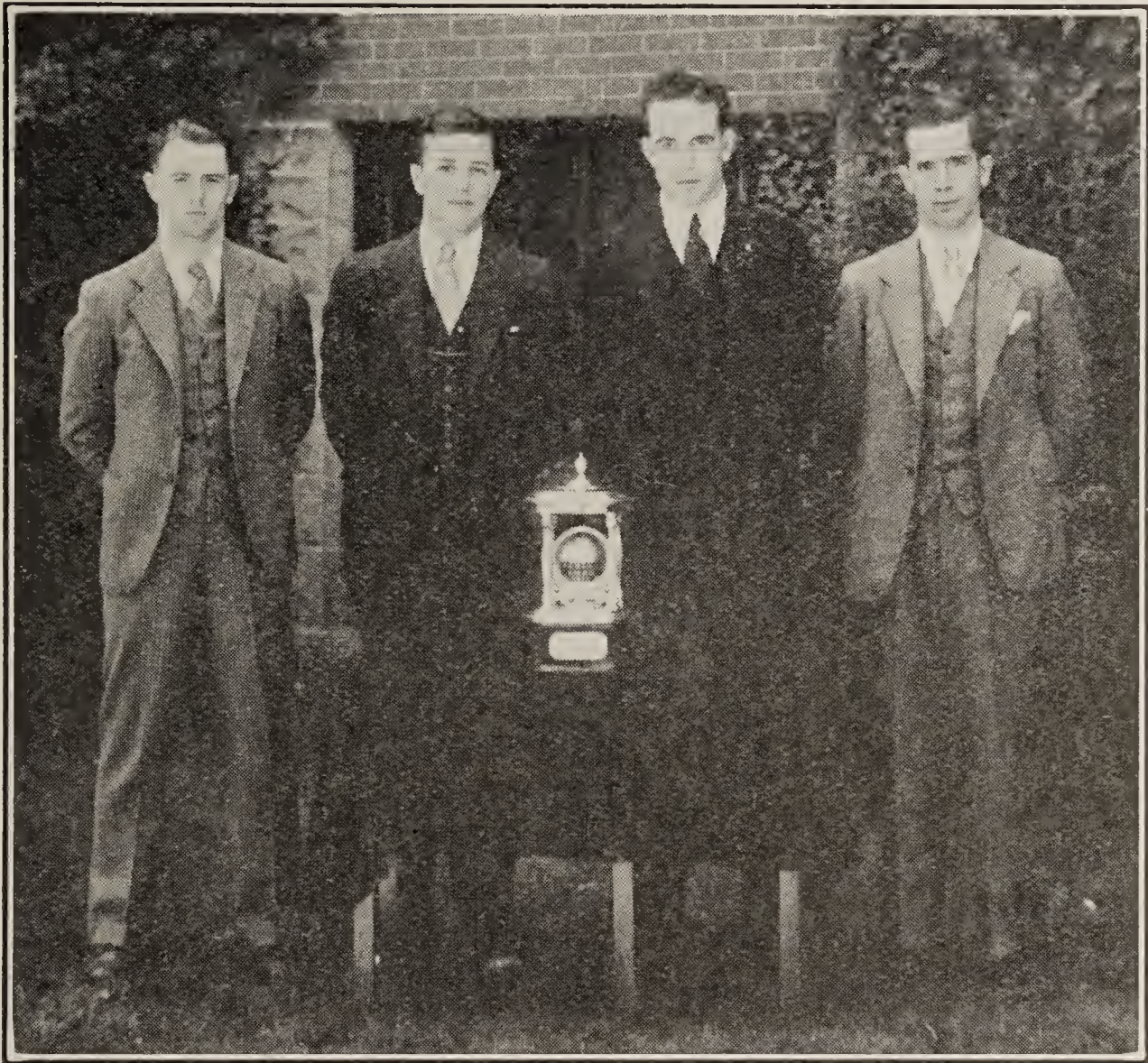
year '33 and Bill Archibald and Charley Heath of class '34 to bring to the College, from Regina, the coveted silver trophy, emblematic of the world's championship in grain judging. Through their achievement at the World's Grain Exhibition and Conference, these men have not only brought great honour to themselves, but they have shown the world that their Alma Mater takes second place to no other similar institution; they have set a new standard of which the graduates may be justly proud and which present and future students must strive to uphold.

When the team left the College on July 20, in a Ford car belonging to the Economics Department, some doubts were entertained whether they would even get to Regina, let alone beat the Western and American Colleges at their own game and bring home rewards valued at over a thousand dollars. The trip, however, was completed without mishap, and the silver trophy which they brought back as a souvenir will settle any doubts as to their ability.

The first stop of interest on the trip west was at Burwash Prison, where the team renewed their acquaintances with some old friends. In justice to the boys it must be stated that this was their first visit to Burwash and that Tim Gourlay '32 and Earl Marr '33, are enjoying life as Chief Herdsman and Guard, respectively. It never rains but

it pours, and before reaching the Sault the team chanced to meet another College man in the person of Dick Goodin '34, who was busy inspecting potatoes—in the day time.. .

While in Winnipeg the team visited the Manitoba Agricultural College and were shown about the campus which now includes the new buildings of the University of Manitoba. At the time of their



WORLD CHAMPIONS

Left to right—A. W. Archibald '34, N. D. Hogg '33, B. Coho: '33 and C. N. Heath '34

visit, the College was practically closed down so they did not have the opportunity to meet any O. A. C. graduates at this stop.

The trip across the prairies proved to be more interesting than had at first been expected. The grasshoppers were a source of annoyance, however, and a screen had to be placed over the radiator to keep them out, long before Winnipeg was reached. In some districts passed through, the insects were so numerous that the farmers were cutting their oats for green feed in order to have any crop at all. Much of the monotony of travelling was relieved on the prairie stretch by trying to

run down gophers on the highway, but whether or not they made good eating, the writer was unable to learn.

An interesting stop was made at the Dominion Experiment Station at Indian Head, Saskatchewan. It was here that samples of all the grain entered for competition at the Exhibition were row tested, to check their purity of variety. The team had the good fortune to arrive there on the same day that the Conference delegates chose to make their inspection, and with Dr. Christie and Professor Squirrell, they had the pleasure of meeting several of the celebrities who were present.

Regina was finally reached on July 29, after nine days of travel, and hotel accommodation was secured so that the boys would get well rested up before the competition. Once settled, the team made use of every minute. Several classes of seed were gone over, as a final work-out, and during their leisure moments, which were few, they fraternized with the other teams and visited the Show where they met Jack Pawley '33, who was with the Dominion Department of Agriculture exhibit; Wilf. Tolton '28, with the Ontario Department of Agriculture display; George Elliott '35, who was showing cattle from the Prince of Wales' Ranch and Lloyd Herman '34, who was giving his trans-Canada thumb a little exercise.

The inter-college competition took place on August 2nd. It lasted from nine a.m. until six p.m. and will provide night-mare material for Cohoe, Hogg and Archibald, for the rest of their lives. Ten, three-man teams, representing a similar number of Agricultural Colleges in both Canada and the United States took part. The judging took place in three rooms, and the men were so separated that no two members of a single team would be in similar groups. There were eleven classes of grain and small seed in the competition, and five placings were required in each class. Each man was given his own samples to work with, and at the end of twenty-five minutes had to turn in his placings and written reasons, together with the material he had judged.

Such a competition would be very trying under the most favourable conditions, but contrary to all expectations the material used for judging purposes turned out to be of a very ordinary commercial grade, containing many impurities. Matters were further complicated by the fact that the quantities of seed were much larger than stated in the catalogue, and if anyone thinks that it is easy to place five, six-ounce samples of poor timothy seed in twenty-five minutes, they will require some remarkable arguments to convince any of the Regina team. Although none of the College team had ever judged this type of material

in their training work, they knew what good seed should look like, and the few days spent in recalling their knowledge of weed seeds stood them in good stead.

The banquet, given in honour of the teams and their coaches in the evening, after the contest, must have been a gloomy affair indeed. Everyone present seemed to feel that the competition was going to result in a close race for bottom place. The speaker of the evening was Professor Darst, coach of the North Carolina team, and producer of many winning teams at Chicago. Prof. Darst said that he had never attended a better conducted grain judging competition, and stated that he had never seen a finer trophy offered for such a contest.

The results of the junior competition were announced at this time, the Ontario team placing third, with Saskatchewan and Alberta in the lead—a very credible showing, never-the-less, for Mr. Ed. Summers, the Durham Agricultural Representative, and his Junior Farmers.

On August 3rd at six p.m., the boys stepped out of a theatre, where they had gone to forget their sorrows, to learn of their success.

The results were as follows:

CLASS	1st	2nd	3rd	4th	5th
Hard Spr. Wheat	Sask.	Sask.	Archibald	Okla.	N. Carolina
Winter Wheat	N. Carolina	Hogg	Alta.	Sask.	Man.
Durum Wheat	B. C.	Sask.	Hogg	Okla.	Alta.
Oats	Sask.	Sask.	Alta.	Cohoe	B. C.
Barley (6 rowed)	Alta.	B. C.	N. Carolina	Cohoe	Sask.
Barley (2 rowed)	Man.	Man.	Neb.	Okla.	Alta.
Winter Rye	B. C.	Sask.	Neb.	Minn.	Okla.
Flax Seed	Hogg	Cohoe	Sask.	N. Carolina	Man.
Corn	Cohoe	Alta.	B. C.	Iowa	N. Carolina
Timothy	Okla.	N. Carolina	Okla.	Man.	Alta.
Alfalfa	Iowa	Sask.	B. C.	Alta.	Man.

*The above table shows the prize winners in each class of grain judged. Although Saskatchewan received more prize money than did Ontario, the College team was better balanced and obtained the highest aggregate score.

The standing of the teams was as follows:

- | | |
|---------------------|--------------|
| 1. O. A. C. | 6. Oklahoma |
| 2. Saskatchewan | 7. Manitoba |
| 3. Alberta | 8. Minnesota |
| 4. British Columbia | 9. Nebraska |
| 5. North Carolina | 10. Iowa |

The O. A. C. men, having the highest aggregate team score, won the two hundred dollar trophy, emblematic of the world's champion-

ship, and Bruce Cohoe received a six hundred dollar scholarship for obtaining the highest individual aggregate score. The team also carried off two hundred and eighty dollars in prize money.

It is very interesting to note that it remained for Hogg to show the westerners how to judge their own wheat as he had the highest individual aggregate score for the three classes of this grain.

Needless to say the team was called upon to go through all the ordeals that usually fall the lot of heroes, as soon as the announcement was made. Photographs, a newspaper story, a garden party and the formal presentation before a crowded grandstand, followed on the next day. Among those who received their prizes at the same time as the team were: Herman Trelle of Peace River District, holder of many world wheat championships, and Frelan Wilford, winner of first prize in the fifty pound class of hard red spring wheat. The boys had the pleasure of making their acquaintances.

The presentation was made by His Excellency the Governor General Lord Bessborough, but the dignity of the occasion did not prevent the team forming a huddle about their trophy and giving a Boom-Chicka-Boom that was heard over the radio from Winnipeg to Vancouver, and let the people know that the O. A. C. was very much alive.

With their spirits greatly revived, the team boarded their car and headed for home, via the Rocky Mountains. The itinerary of their trip included Banff, Lake Louise, Kicking Horse Pass, Crow's Nest Pass, Yellowstone Park and the Century of Progress at Chicago.

But all good things must come to an end. The team arrived home on August 20, and at the time of writing Cohoe is farming at his home in South Woodslee; Hogg is taking the poultry specialists' course at the O. A. C. and Archibald and Heath are with the farm department at the College, preparing to enter their fourth year. They are a typical group of O. A. C. men who had a job to do and did it well. Our congratulations to the team and their coaches, Prof. Squirrell, E. T. Goring, R. Keegan and James Laughland.

It is well for a man to respect his own vocation whatever it is and to think himself bound to uphold it, and to claim for it the respect it deserves—*Charles Dickens*.

MACDONALD NEWS

Frances Edwards '34

Some Observations On The Nutritive Value of Shredded Wheat

by Charles Castell, Dietitian to Mahatma Ghandi

For some time I have been considering which of the various scientific journals would most appreciate publishing the results of an interesting experiment carried on at the College this summer. An associate suggested that charity should begin at home, therefore, it is with great pleasure that I submit the following paper:

OCCASION OF THE EXPERIMENT

On August 15, 1933, the College dining hall ceased to function. This meant that those who up to that time had received their meals there, must make other arrangements or see their shadows grow less and less. Previous to this time, however, Professors Knox and Raithby had done some fine experimental work in the nutrition of animals, and the thought suggested itself, why would this not be a suitable time to make some similar experiments on the human body.

A strenuous attempt was made to obtain volunteers, but only one person was willing to submit himself in the cause of science, and even he was only moderately enthusiastic.

PURPOSE OF THE EXPERIMENT

The most difficult part of the work was to decide on a suitable and definite purpose. The field of nutrition in relation to the human body spreads itself out like a setting hen, on close examination, but broadly speaking it lies in four parts:

- Part I How to grow thin.
- Part II How to stay normal.
- Part III How to grow fat.
- Part IV Food in relation to cost.

Part IV is only included for the benefit of any male readers, as most of the girls who I have taken down town for supper do not consider this point worth thinking about.

Not being able to decide which of the four parts stood in the greatest need of true scientific study, it was decided to conduct an experiment covering the whole field, to give the world a newer knowledge of nutrition.

THE PROCEEDURE

The subject was a male, in fair health, not yet married and weighed 139 pounds on August 15, at 7:00 a.m. The diet for the whole two weeks of the experiment consisted of the following foods:

- I 14 quarts of milk.
- II 6 boxes of Shredded Wheat.
- III 4 tomatoes (donated)
- IV 3 oranges (donated)
- V 6 bananas (donated)
- VI 1 quart of beer (lent)

On the morning of the sixteenth the subject was given a big portion of Shredded Wheat and milk, and then left until he was hungry enough to thoroughly appreciate a second dose. This procedure was followed throughout the entire duration of the experiment. At one period the subject suggested that he was becoming "fed up" on Shredded Wheat, but never-the-less, he always registered anxiety when the lapses between administrations became lengthy, and showed his interest in the experiment by always coming back for more. The fruit and vegetables were used chiefly to take the irritable edge off the subject's appetite before bringing on the Shredded Wheat.

RESULTS

For brevity these are summarized as follows:

(a) The subject's weight:

Aug. 16—139	pounds	Aug. 23—136	pounds
17—139	pounds	24—135	pounds
18—138.5	pounds	25—134	pounds
19—138	pounds	26—133	pounds
20—138	pounds	27—132	pounds
21—137.5	pounds	28—131	pounds
22—137.5	pounds	29—130	pounds

(b) The subject remained, for the most part, in the best of spirits with the exception of one or two fits of temper thrown when a certain breakfast food was accidentally mentioned.

(c) The physical strength of the subject remained normal as far as could be learned. On one occasion he even attempted to lift a 500-lb. trunk, but it would seem that this might be correlated with the "one quart."

(d) The subject's reasoning power evidently remained in good condition as he was frequently heard to mumble, "boy oh boy! what I would give to be back in the dining hall."

CONCLUSIONS

I A certain breakfast food, plus milk, in time will become, at best, slightly monotonous.

II The human body will not grow fat on such a diet.

III The human body will not stay normal on such a diet.

IV It would make a splendid diet for women who want to reduce their weight without complicated and expensive beauty treatments.

V The sooner the dining hall opens the better.

No conclusions can be drawn as yet on the question of costs. Although the Shredded Wheat and milk cost only \$2.50 for the fourteen days, the subject has since been spending several dollars daily at Charley Wong's grub house, - - as he says, - - catching up.

Mollie Ross, Mac 1930, has for two years been Ass't Dietitian at Saint John General Hospital, the largest east of Montreal.

AFTER THE WEINER ROAST

Mrs. B.—"Young lady, I don't want you entertaining your gentleman friend on the front steps of this Hall when you know that it is long past 10:45."

Freshette (education just starting)—"Yes, but I only stopped for a second."

Mrs. B.—"Nonsense! I distinctly heard the third, fourth and fifth."

Noted Horticulturist Passes

Life of W. T. Macoun Marked by Many Noble Achievements in the Interests of Canadian Agriculture

A member of that pioneer group which placed Canadian agriculture on a scientific basis 45 years ago with the inception of the Dominion Experimental Farm, and one of the leading horticulturists of the American continent, Dr. William T. Macoun, Dominion Hor-



DR. W. T. MACOUN

ticulturist, Department of Agriculture, died on Sunday morning, August 13th, at his home on the Experimental Farm grounds, following an illness of several weeks. He was in his 65th year.

Dr. Macoun was born in Belleville, Ont., and was educated there and in Ottawa, Ont. When the Dominion Experimental Farm was inaugurated forty-five years ago, Dr. Macoun was appointed to the Division of Horticulture. He was the first Dominion Horticulturist and during his regime was responsible for great development in horticulture work.

Although active in all branches of horticultural science, Dr. Macoun made a special study of apples and was also associated with Dr. Charles Saunders in the origination of the famous Marquis Wheat.

Dr. Macoun was a member of the Federal District Commission and a past president of the Canadian Society of Technical Agriculturists. In recognition of his services Dr. Macoun received the honorary degree of Doctor of Science from Acadia University, Wolfville, N.S. Besides being a Fellow of the Canadian Society of Technical Agriculturists, he was also a member of the American Society for the Advancement of Science. Dr. Macoun was the first recipient of the Carter Medal, given by the Canadian Horticultural Society for the greatest achievement in Canadian Horticulture, and several times won the Wilder Medal awarded for outstanding contributions in horticulture.

In recognition of his services and as an expression of our respect for Dr. Macoun, we wish to do him honour by this brief review of his many accomplishments.

In Memory of F. Eric Millen

President Christie's Address at the Memorial Service for Professor Millen. War Memorial Hall, O. A. C., July 17, 1933

Our ranks were broken when Professor F. Eric Millen, a loyal, respected and prominent member of our staff, was called away on the morning of July 14, 1933. I know that I speak for every member of the College community and a host of other friends, when I say that our hearts are heavy and filled with sorrow as we mourn the loss of our co-worker and comrade.

Life's journey for the late Professor, was begun at Lynsted, Kent, England, on July 4th, 1882. On the death of his father, Eric Millen was sent, at the age of six years, to Wreights School, Faversham, where he received his early education.

In 1903, this boy who was destined to play a part in the agricultural activities of our Dominion, arrived in Ontario to work on a farm near Lindsay. In addition to this work, he spent some time, during the next three years, in Mount Herman College, Massachusettes, and in a poultry short course at the Ontario Agricultural College. In September 1906, Eric Millen entered the O. A. C. as a freshman. As a member of the Maple Leaf Literary Society, he joined with S. E. Todd and won a debate over the Seniors. He was recognized as an able public speaker, and used these talents to further the activities in which he was engaged.



PROF. F. E. MILLEN

On a trip to England in 1907, Eric Millen was taken ill and was unable to return that fall. In 1908 he married Clara Goodhue of Sittingbourne, Kent, and two years later, with Mrs. Millen, returned to the O. A. C. to complete his course. He specialized in Entomology and graduated in 1913. Eric Millen won and held the high esteem of the faculty with his genuine interest, initiative and hard work.

Upon graduation, Eric Millen was appointed State Apiarist and Instructor in Apiculture at Michigan State College. He served in this capacity until January 1916, when he was appointed Associate Pro-

fessor of Apiculture at Iowa State College. October 1919 found him once again at his Alma Mater, this time as Professor of Apiculture and Provincial Apiarist, and in the latter position he served as leader of the industry, throughout the Province.

It will be recognized that the education, training and practical experience gained in Canada and the United States, served to prepare and qualify Professor Millen for the important and responsible positions that he has so ably filled in this College and Province. The Apiculture Building, which was completed in 1920, and which is the largest and best equipped building, devoted entirely to Apiculture, on this continent, represents the ideas and plans of Professor Millen. Through his work Ontario enacted legislation in 1925 providing for the registration of Beekeepers, a step which has advanced the industry, improved the quality of the product and has increased the financial returns to the honey producers. During his fourteen years of service in the Province, Professor Millen visited many hundreds of apiaries, made inspections, advised the owners and established personal contacts which have been greatly appreciated and valued by the Beekeepers. His influence on the men and the industry will live on:

*"They live most who, when they are gone,
In the lives of others are still living on."*

Professor Millen was happiest when he was working with others. He won the hearts of the students and filled them with inspiration. He placed before them the highest ideals and preached work and business ethics. Professor Millen was sincere and straight forward in all his activities and he expected others to meet him on the same high plane.

Many will remember the part he played during the recent Alumni Field Day. He worked early and late, as Class Secretary, to get a large attendance at the 1913 Class Reunion. It was my pleasure to attend the dinner and to learn of the close relationship Professor Millen had with every member of the class. They looked to him for advice and cheered him on every move. Evidence on every side showed his interest in the "Old Boys," and their respect for him.

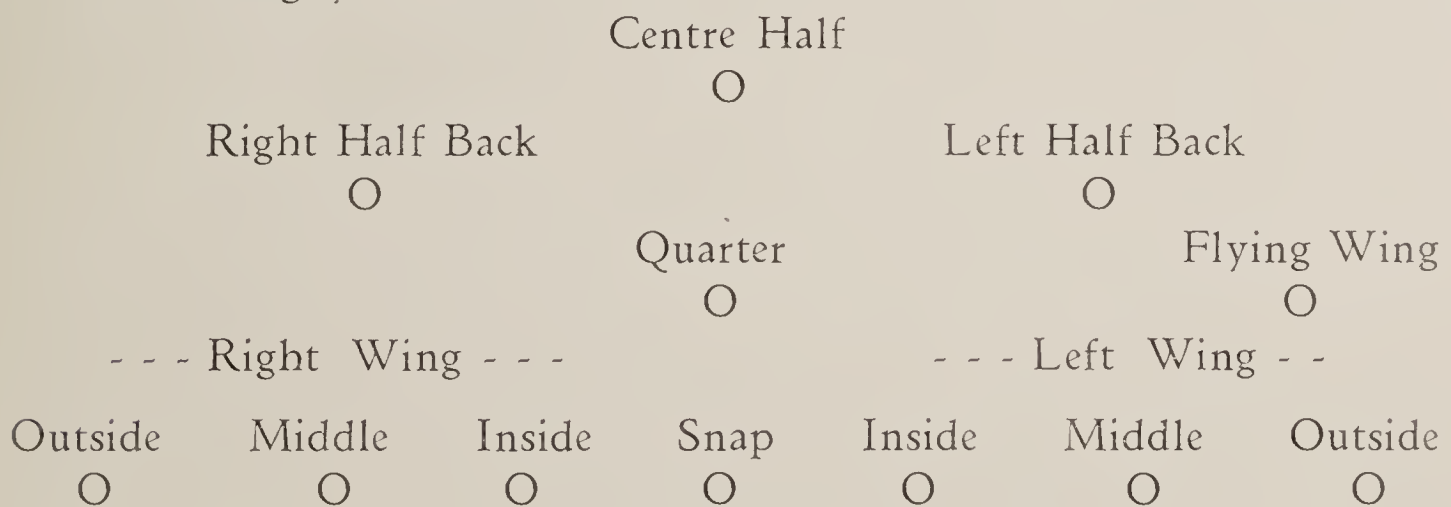
While a young man, as years are counted, Professor Millen lived a full and active life. It seemed that he planned, worked and played so as to make every moment count, with the result that he has a long list of worthy achievements to his credit. Professor Millen "fought a good fight;" he lived a rich, full, life; he has left a deep impression on the lives of our people, and he will not be forgotten.

Rugby Revelations For The Rail-Birds

*An Introduction to the most Popular of Canadian Fall Sports,
Written for the Benefit of Spectators who wish
to Follow the Game Intelligently.

"Sixty hours practice, sixty minutes play" is an old rugby adage that will help the reader to realize that this is not a game that can be summed up in so many words. The styles and systems of playing it are legion, and to choose one, label it orthodox, and describe it as standard about which all other methods are built would be impossible. The rules and objects of rugby, however, give all the systems of play a common denomination, which if more clearly understood by the spectators would help them to appreciate the fact that the game is not so much a contest of brawn, as it is a battle of wits, in which quick thinking, perfect timing, rythm and team-play must all coordinate perfectly, in order that any effective scoring action take place.

Probably there is nothing more embarrassing to the average rugby spectator than to find that he cannot discuss a game with his friends owing to the fact that he does not know the positions occupied by the players, or what duties are to be expected of the men. The accompanying diagram will give some idea of the positions, according to the Canadian Rugby Union.



*This article is neither a technical nor an exhaustive treatise of the subject, but it is designed to give the average non-playing student a little better appreciation of the game. The editor is indebted to F. G. Baldwin, the Director of Athletics, for his assistance in supplying the information that made this article possible.

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While this diagram represents the positions of the line players fairly accurately in both offensive and defensive play, the same cannot be said of the backfield. Different styles of rugby call for slight modification of the positions behind the line in a defensive game, and both the system followed and the play to be carried out, dictate the positions on the attacking side.

The shortest way to an opponents goal line is through the middle of his team. The players from Left to Right Middle, therefore, make up the heart of any rugby squad. In the centre of this group is the Snap, and in selecting a player for this responsible position, a coach must find a man who can take a great deal of punishment, yet one who is quick on his feet. The Snap, besides being a general safety man, is responsible for breaking up short forward passes, and last but certainly not least, he must be able to throw a ball accurately between his legs, with either one or both hands.

On either side of the Snap are the two men who take the brunt of the punishment in rugby. The sole work of an Inside is to make interference, hence, his efforts are the least sensational, and certainly the least applauded by the stands. This latter fact is taken into consideration when selecting men for this position, hence, an Inside is usually a hard-working, plugging type of chap, with a temperment that asks no recognition from the fans.

Ability to make effective interference is also an essential quality required of the men playing at Middle. Besides this, however, they must be speedy, adept at plunging, good ball carriers and sure tacklers. The same requirements are demanded of candidates for the Outside or End positions, but as the men at End are the only players on the line eligible to throw or receive a forward pass they must also be able to handle the ball well.

These qualifications are, of course, very general, and in exceptional off balance plays it would be quite possible to have the Snap in End positions and, therefore, be eligible to handle forward passes. All rugby players, especially those on the line, can never get very far without developing a sixth sense that enables them to diagnose what the opposition is about to do, and act accordingly. This training in thinking and acting in a flash is one of the reasons why rugby is such a valuable game for young men.

On a well balanced team every man behind the line should be a potential ball carrier, forward passer and pass receiver. It is a common fault to have a squad built about one or two outstanding men, with

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the inevitable result that the fortunes of the team follow those of the stars. The Aggie team of 1932 was an all-round squad. All the players were good, but it would be impossible to name any outstanding men and any position could be substituted without weakening the whole. Besides making for better team play, this had the very desirable result of greatly multiplying the possible number of plays and leaving the opposition at a loss to pick any key men whose stopping would mean the breaking of the team.

It is behind the protection of the line that the offensive tactics of the game are directed and put into action. The man who does this directing, and upon whom all the responsibility rests, is the Quarter. To enumerate the duties of this player would be an impossible task, but they may be summed up by saying that he is the pivot man or field general of the team. The prime requisite of a Quarter is leadership, and as he must be able to grasp his team's situation at a glance and decide the next two or even three plays in advance, he must have a cool, calculating temperament. The Quarter must know and be able to play any position on the field. It is he who decides what men should be "pulled" from the game, and he is responsible for the care of his injured players on the field. The duties of a Quarter do not end with the game. Besides the regular practice routine, he must be constantly in touch with his men and develop an understanding of each player that will enable him to keep the team working like a well-oiled machine. He must also make a detailed study of rugby tactics and understand perfectly how they are adapted to varying field conditions.

The Flying Wing position calls for a man of all round ability. He must be able to plunge and make interference on the line as well as perform the other duties required of backfield players.

The men that occupy the Half positions are usually light and speedy. Their work, besides that already outlined, demands that they possess skill at broken field running, an ability that is needed in running back kicks. The Centre Half is usually the kicker, but as an example of how the men and positions frequently get sadly twisted in actual play, the Quarter, on the College team of 1932, although not the kicker, frequently played at Centre Half, and at the same time acted as lead-off man, receiving the ball from the Snap and passing it to the actual runner.

When the teams line up at the beginning of a game the ball is placed on the fifty-five yard line, in the centre of the field. The kicking side, with the exception of two Half Backs, who must be prepared to



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POKER HANDS

receive the ball if it is returned, line up five yards behind the ball, and must be behind it when it is kicked. The ball is also kicked from the centre of the field at the beginning of the third quarter, and by the side scored against after a touchdown. After a field goal, however, the kick-off takes place from their forty yard line. The ball must be kicked more than five yards, it must not go out of bounds unless touched by an opponent and no score can be made from a kickoff, unless it touches an Onside player.

The men on the receiving side are spread over the field in positions that enable them to recover the ball as quickly as possible. The Snap, Middles and Insides, however, remain on a line, ten yards in front of the ball and make interference as the opposing players come through. Interference, in this case can only take place on the line and consists of taking a few of the best of the opposing men out of the play by delaying them. Holding of any sort is taboo in interference, as it eliminates skill. The slowest man in the world could make a long run if his team mates held the opponents long enough, and unless the ball is advanced by strategy, skill and speed, there is no point in rugby.

When in possession of the ball, a team has three chances to advance it ten yards. If this cannot be done by strategy in two "downs" the ball is usually kicked on the third and goes into possession of the other team, provided that their Half Back gets it before the kicker runs up and puts his team onside. If the yards are made, the aggressors retain possession, but if they fail, the opposing side take their first down where the ball was called dead.

In advancing the ball a great number of plays are used, and the formations from which they start depend largely on the system of rugby followed. These plays may be roughly divided into three classes, however; power plays or line plunges, extension plays and forward passes.

Upon gaining possession of the ball, a team is allowed twenty seconds to put it into play. A huddle is formed in which the Quarter gives his instructions for the play, and the men take their positions. At least five of their players must be in a straight line and within a yard of an imaginary line running through the ball from one side or touch-line of the field to the other. The opposing side must stand at least three feet in front of this line of scrimmage, hence the teams cannot be less than a yard apart. With the exception of the head and arms of the Snap, the attacking players must be altogether behind the



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ball when it is put into play, and any infringement of these rules constitutes one of the many possible offsides.

All plays from scrimmage must be cleanly snapped and may be received by any player. In most systems, however, a lead-off man will take the ball, suck in the opposing players towards him, then pass it to the man who is to complete the play by carrying it over the line of scrimmage. Perfect timing means everything in getting a play away. If it is to go through the centre, the linemen, who are allowed to make interference in a three yard zone in front of the scrimmage line, must know exactly how long it will take the ball-carrier to reach them, in order that they may step apart at the right moment leaving a hole through which he may pass. Once through the line, a ball-carrier is on his own and must do his best to evade the opposing tacklers.

On an extension play the ball is snapped back, usually to a lead-off man, and if the play is completed, one of the speedy Half Backs will carry it around the end for a large gain. A Half Back, however, is usually built for speed rather than punishment, and in a well-played game the ball will never be passed out to him unless it is seen that his chances for a large gain are good. Many a good player has taken a lot of unmerited razzing and a lot of punishment that he could easily have avoided by passing the ball, in helping to save the Half Back's energy until the break came. All passes, except an intentional forward, must be made to an Onside player. In other words they must be made to a player who is behind the ball, and if they are not, they are ruled offside.

There are certain outstanding points with regard to the forward pass that should be understood by everyone in order that the play may be fully appreciated. The pass can only originate from a scrimmage in which the usual seven line positions are filled when the ball is put into play. It may be thrown only by the men in the End positions and players who are at least one yard back of the wing line of the passing team. Regardless of the position played by the thrower, however, he must be at a point at least five yards behind the line when the pass is made.

The ball may be snapped back either directly to the passer or to a lead-off man. While the former is taking his place to throw, the linemen are creating interference in their three-yard Zone and some of the eligible receivers are spreading out through the defender's territory. In the case of both the kick and the forward pass, the kicker and passer are allowed moving protection behind the line of scrimmage. If,

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however, either play is a fake, this secondary defence must remain stationary after the ball is put into play.

A completed forward pass is one that crosses the line of scrimmage and is caught by any member of the opposing team or by any eligible member of the attacking side. The ball, however, must be caught before it has either touched the ground, hit an obstacle on or behind the goal line or has been touched by an ineligible player. The pass is also considered incomplete if it fails to cross the line of scrimmage, but if it is caught by an opposing player before doing so, the defenders take possession. Once the ball is touched by an attacker, he is the only man eligible to catch the pass, but should a defending player touch it, anyone is eligible to get his fumble.

A pass that is thrown over the defending team's goal line, or is thrown from a scrimmage that takes place within the defender's twenty-five yard line, can only be completed by a player on the passing team. Failure to do this results in a first down for the defending side on their twenty-five yard line. In other words, a forward pass cannot be rouged for a single point.

The defence against the forward pass is usually worked out on the zone system. The linemen make interference in their usual three yard area and the other players take strategic positions on the field and try to intercept the pass if it comes into their zone. If a defender knocks the pass to the ground, the passing side merely lose a down, but if it is caught by a member of the defending team, they lose possession of the ball.

As mentioned previously, moving interference behind the line is permissible in kick formations. Six men usually protect the kicker, while five go down under the ball. Once the kick is made, all the players on the offensive team, with the exception of the kicker, are Offside, and must allow the receiver five yards clearance until he touches the ball and they are made Onside.

In receiving the kick, one Half Back gives his full attention to the ball, while the other watches the field and directs him when the catch is made. A sure catch is better than a fumble, and a live Half is more useful than a dead one, therefore, be assured that somebody, usually the Quarter or Coach, is using his grey matter when you next see a Half let the ball bounce before catching it or step into touch to avoid being tackled.

The highest score in rugby is the Try or Touchdown, which counts five points. It is scored when the ball, in possession of a player



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behind his opponents goal line, is called dead. A team may add one point to this score by successfully completing a field goal, a forward pass in the opponent's goal area or by carrying the ball over their goal line. These plays may be scrimmaged from any point outside of the defender's five-yard line.

A goal is scored when the ball is hoisted over the crossbar and between the posts of the opposing goal. This play scores three points, and is frequently used to score against a powerful team who are fighting to prevent a touchdown.

A rouge, counting one point, is made when the ball goes to the dead line, over the touch-in-goal line at the defender's end of the field, or is trapped in possession of an opposing player behind his own goal line. The point is also awarded if the defending team make an offside pass or create interference in their own goal area.

The safety touch presents a little-understood point in rugby. In the technical language of the rule book it may be summed up as follows:

"A safety touch is scored when the ball has last touched a player, of the side defending the goal, in front of the goal line, prior to crossing the goal line, where it is rouged."

Probably more referee's whistles are worn out through calling offsides than from any other cause. A general idea of what constitutes an offside, therefore, is of interest, and according to the C. R. U., "a player is offside when the ball has been last touched by one of his own side behind him." "A player is put Onside when one of his own side has runs in advance of him, either with the ball, or having last touched it when behind him. Some of the more common offsides have already been pointed out in this article and will bear reviewing in order that the reader may see the operation of these rules.

In an article that aims at merely skimming the surface, it is impossible to touch on any of the more technical points that arise from time to time or to deal at any length with penalties. Little, too, has been said about the tactics of rugby. It is felt, however, that the reader, after gaining some knowledge of the game as set forth in this article, will be able to see these for himself in future games and will be able to appreciate and pass judgement on the plays used by the Quarter to reveal and take advantage of the opponents weaknesses, conserve the strength of his own men and make the best use of such natural factors as wind and wet.

Intercollegiate Athletic Schedules

FALL TERM 1933

RUGBY

Intermediate Intercollegiate (O. A. C. Defending Dominion Title)

- Oct. 7 Western at O. A. C.—1:30 p.m.
- Oct. 14 Western at McMaster—2:30 p.m.
- Oct. 21 McMaster at Western—2:30 p.m.
- Oct. 28 McMaster at O. A. C.—2:30 p.m.
- Nov. 4 O. A. C. at Western—1:30 p.m.
- Nov. 11 O. A. C. at McMaster—2:00 p.m.

McMaster game (Nov. 11) to be played at the H. A. A. A. Grounds, Charlton Ave., West, Hamilton.

SOCCER

Senior Intercollegiate (Varsity Defending Dominion Title)

Intermediate Intercollegiate (O. A. C. Defending Dominion Title)

- Oct. 11 McMaster at O. A. C.—2:00 and 3:30 p.m.
 - 14 O. A. C. at Western—2:00 and 3:30 p.m.
 - 21 Western at McMaster—2:00 and 3:30 p.m.
 - 28 O. A. C. at McMaster—2:00 and 3:30 p.m.
 - Nov. 1 McMaster at Western—2:00 and 3:30 p.m.
 - 4 Western at O. A. C.—2:00 and 3:30 p.m.
- (Senior Games to be played first)

HARRIERS

Senior Intercollegiate (McGill Defending Title)

- Nov. 11 - - - - at McGill - - - - 10:00 a.m.

Intermediate Intercollegiate (McMaster Defending Title)

- Nov. 4 - - - - at McMaster - - - - 11:00 a.m.

TRACK

Intermediate Intercollegiate (McMaster Defending Title)

- Oct. 20 - - - - at Western - - - - 1:30 p.m.

TENNIS

Intermediate Intercollegiate (Varsity Defending Title)

- Oct. 27-28 - - - - at McMaster - - - - 2:00 p.m.

GOLF

Intermediate Intercollegiate (Western Defending Title)

- Nov. 1 - - - - at Western - - - - 1:00 p.m.

O. A. C. SPORTSFOLIO

A. T. OLIVER '34

PUNK, GOES THE PIG SKIN !

Rugby Material Looks Promising

The initial 1933 practice for the O. A. C's. Dominion Intermediate Intercollegiate Rugby Champions took place on September 18, when some thirty candidates for the team put in an appearance for the preliminary workouts. Most of the members of last year's first and second teams were back on the opening date, and with the freshman material, the squad appeared to be even heavier than last season's champions.

Six of the old standbys will be missing this year, namely: Gollahan, last year's captain, Henry, West, Kellough, Wood and Montgomery. Oddly enough, these are all linesmen, but Baldy has a wealth of good material on hand from which the vacancies will be filled.

Last year's backfield is intact with such regulars as Keith, Richardson, Pollock, Elliott and Borisuk, ready for another championship season, while Mills, Hales, Fitzgibbon, Arkell, Folland and Jennings will be on the line when the whistle blows. Turnbull, Peer, Berry and Carter were also on deck when the training season opened, and several of last year's second team, who are bidding for places on the intermediate line-up, helped to swell the total.

Although it is impossible to give a complete survey of the freshman material available at the time of writing, the initial workout attracted some eight newcomers to the team, these included: George Brown, brilliant linesman of the St. Thomas Dominion Intermediate champions; J. Pannett, a junior O. R. F. U. linesman from St. Thomas and R. Alexander, another St. Thomas man who played in Senior W. O. S. S. A. last fall. The other candidates include Frank McDonald of the Galt Intermediates; A. Farraro and Art Luscombe of Guelph; M. Longworth of Norwich and Jack Bromley of Brampton.

To all appearances the College Rugby horizon is very bright this year but the actual games will be the only means of revealing the most important factor in the success of the team, namely, the relative strength of the opposition.



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SOCCER PROSPECTS GOOD

Although the training season for the Soccer squad had not opened at the time of writing, the prospects for another two teams of dominion championship calibre for the 1933 season were very bright, according to Prof. Blackwood.

Only three men have been lost to the senior intercollegiate team through graduation, but several of last season's intermediate team stars will be available to fill the vacancies. The absentees are: Walker, the captain of last year's squad; Garnett and Wood.

Coach Blackwood expects to find some first-rate material among the freshmen, especially those from Kemptville, the Maratimes and the British Isles.

B. W. and F. AFTER SENIOR RATING

The O. A. C. Boxing, Wrestling and Fencing team has again made application for senior rating. Last year's Intermediate Meet, at which the College men won everything but the two events in which they did not enter, should provide enough evidence to bring the application a favourable hearing, but as yet nothing definite can be said about the matter.

HARRIER COACH NAMED

Johnny Cuthbert of Guelph, who coached the harrier teams for a short time last year will have charge of them for the entire season this year. Cuthbert was the captain of the Canadian Olympic team at Amsterdam in 1928 and his experience in distance running should prove of great value in building a strong senior and intermediate team.

All those who are interested in running, especially distance men, are invited to turn out for harriers.

ARTIFICIAL ICE RUMOURED

There are rumours, and well founded ones, that Guelph is to have artificial ice this winter. True, the plans are still in the air and the promoters are faced with the problem of raising something like \$17,500 to instal the plant, but it is understood that a serious effort is to be made to have the equipment ready for the coming season.

If the plans go through, it will mean a complete revival of hockey at the College. In the past, O. A. C. teams have done surprisingly well despite the fact that they were greatly handicaped through lack of facilities for practice. Therefore, artificial ice should put the College on the hockey map.

MILLS ELECTED CAPTAIN

As the *Review* goes to press, George "Poker" Mills has been elected captain of the 1933 edition of the O. A. C. senior rugby team, succeeding Wildcat Gollehan, who graduated last spring in Veterinary Science. "Poker's" early rugby training was received in that town of perpetually good football teams, St. Thomas. He climaxed his apprenticeship there by helping to win the Junior Canadian Championship in 1929. The next year, hearkening to the call of Scientific Agriculture, he enrolled at O. A. C. with year '34. He stepped at once into intermediate company with the Aggies, and has been playing a mighty good brand of rugby with the first team ever since.

George's ability as a leader, to say nothing of his popularity, can be vouched for by the fact that he represented '34 on the Athletic Association for two years, was a member of Students' Council in 1931-32, and became president of the senior class last spring.

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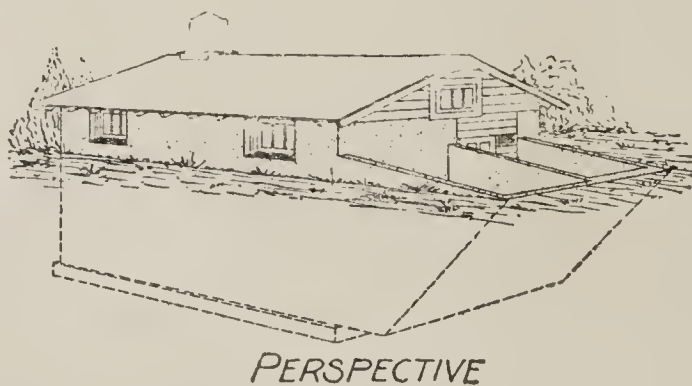
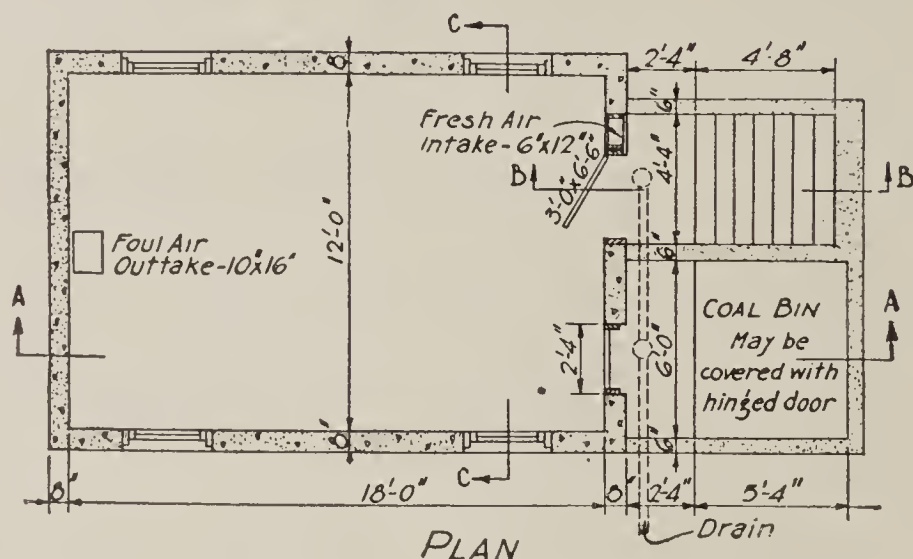
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ALUMNI RECORD

John Dryden '35

ALUMNI ACTIVE IN MANITOBA

Reunion Picnic Well Attended

A large reunion picnic for the graduates of the O. A. C. and their families, who are residing in Manitoba, was held on the lawn of Dean McKillican's residence at the M. A. C., on June 22. Over one hundred guests attended the gathering, and after the supper, at which introductions flew thick and fast, a programme of sports was run off and the visitors inspected the new buildings on the University campus.

The Manitoba Branch now boasts a membership of seventy-two. Prof. F. W. Broderick '03, of the M. A. C. is president of the organization, and J. R. Sweeney '20, of the Dominion Dairy Branch at Winnipeg, is the secretary.

Among the older members present were: Col. B. D. Wallace '81 of Portage la Prairie; J. F. Davidson '85 of Winnipeg; W. D. Wood '90 (Assoc.); J. R. Oastler '97 of East Selkirk. Tom Graham '28, of the Experiment Station at Morden, was the latest graduate at the picnic. Two former members of the College staff were present in the persons of Prof. V. W. Jackson, lecturer in botany here in 1903, and now a member of the M. A. C. staff and Alex McKay, manager of the Perfection Creameries of Winnipeg and dairy instructor at the O. A. C. from 1904 to 1914.

Others attending were: Dean and Mrs. W. C. McKillican, Mr. and Mrs. W. J. Thompson, Mr. and Mrs. R. D. Colquette, Mr. and Mrs. W. D. Wood, Mr. and Mrs. N. C. McKay, Prof. and Mrs. A. V. Mitchener, Dr. and Mrs. G. P. McRostie, Mr. and Mrs. L. W. Wright, Mr. and Mrs. J. C. Fuller, Prof. and Mrs. M. C. Herner, Mr. and Mrs. L. N. Parker, Mr. and Mrs. J. H. Tozeland, Mr. and Mrs. J. A. Oastler, Mr. and Mrs. J. F. Davidson, Mr. and Mrs. C. E. Bain, Mr. and Mrs. J. R. Sweeney, Prof. and Mrs. F. W. Broderick, Mr. and Mrs. E. G. Minielly, J. O. Graham, Dr. F. J. Greaney, E. J. Cayle, James MacKay, Mr. and Mrs. M. C. Jamieson, Prof. and Mrs. N. James, Prof. R. W. and Misses Brown, Mr. and Mrs. J. McLean, Dr.

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Graduates of the Macdonald Hall were represented by: Mrs. J. McLean, Mrs. Lorne Elliott, Mrs. N. C. McKay, Mrs. C. E. Bain, Mrs. A. V. Mitchener, Mrs. G. W. Walker and Miss Jean Garrow.

DR. CHRISTIE ADDRESSES DINNER MEETING

Members of the Manitoba Branch of the O. A. C. Alumni Association had the pleasure of hearing and meeting the man at the head of their old College when Dr. Christie was their guest at a dinner given in the Royal Alexandra Hotel, Winnipeg, on August first.

Dr. Christie addressed the group on the work of the College, and referred to some of the plans now being formulated by the staff to enlarge this programme. One of the points emphasized was that the College is making every possible effort to keep in close touch with farms, and thereby, to render a real service to the men on the land, and the women in the farm homes. "The Ontario Agricultural College was established on this broad basis by the late Dr. James Mills," the speaker stated, "and his successors have faithfully built upon this foundation." Dr. Christie continued by saying that in these days, more than ever before, it is necessary for the college to justify itself through helpful service to the people on the farms, and that the close co-operation of the College in all its activities, with the larger provincial programme, directed by the Honourable Minister of Agriculture, is proving beneficial in many ways.

A vote of thanks and appreciation was extended to Dr. Christie, by the group.

The members of the Alumni in Manitoba were pleased to learn of the participation of the Grain Judging Team in the contest at Regina, and extend their congratulations to the members upon their outstanding success. They also expressed themselves as being very pleased with the Ontario exhibit, which represented the work of the College Extension Department.

The following O. A. C. men were in attendance: Dean W. C. McKillican, Prof. N. James, J. H. Tozeland, C. A. S. Smith, Prof. R. W. Brown, A. C. McCulloch, L. T. Chapman, J. R. Almay, Prof. M. C. Herner, M. C. Jamieson, W. W. Emerson, J. McLean, Andrew Robertson, Alex McKay, H. McFayden, T. H. Tweltridge, J. R. Oastler, J. R. Sweeney, T. J. Coyle (guest).

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GRADUATES DO WELL AT O. C. E.

Sixteen O. A. C. graduates were successful in their final examinations at the Ontario College of Education this year. Of these, the following eight have received appointments to schools, and will have the best wishes of their old acquaintances as they commence their new duties this fall:

H. L. Bamforth '29, Physical Instructor in the Peterborough Collegiate.
Don Hewer '30, Physical Instructor and teaching Upper School subjects in the Sandwich High School.

Herb. Cole '32, Science teacher in the Prescott High School.

R. C. Rosborough '32, teaching Science in the Orono Continuation School.

The remainder are all teaching Agriculture in their respective schools:

Jimmie Hume '31, Leamington High School.

Ernie Kendall '31, Elmira High School.

Norm Lindsay '31, Stamford Collegiate.

Eddie Richardson '32, Florence Continuation School.

Considering that there were five hundred and sixty students at the O. C. E. during the past year, of whom fewer than a hundred have been placed, these men reflect great credit on their Alma Mater and its teaching.

JOINS U. OF CALIFORNIA STAFF

Some very interesting information with regard to "Spike" Galbraith, a former editor of the *Oasis*, has come to light through a letter which Dr. O. J. Stevenson has thoughtfully passed on to the *Review*.

Galbraith left the College with a Giannini Foundation Scholarship, to continue his studies in Agricultural Economics at the University of California; his progress in this field of research will be of great interest to his old friends.

His letter reads, in part:

"The day before yesterday I encountered one of those 'pin points' in academic endeavour when I faced a professorial jury to take my doctor's preliminary or qualifying examinations. Like most long anticipated events, they proved somewhat less terrifying in actual reali-

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zation and I was passed with the compliments of my committee. In passing the examination I was the first of my generation of graduate students to take the step and the fifth since the Foundation was established.

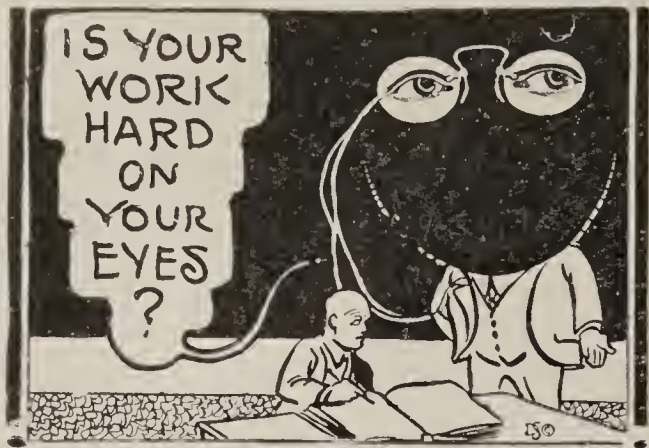
"I have resigned from my research assistantship for the coming year to join the staff of the University in a full-time capacity and am taking charge of the undergraduate instruction in economics and agricultural economics at the branch of the College of Agriculture at Davis. Needless to say I am looking forward to this new line of activity with some pleasure especially in that it does not involve severing my connection with the Giannini Foundation and will provide an opportunity for a limited amount of work on my thesis. The College of Agriculture of the university is partly at Berkeley and partly at Davis. (the latter some eighty miles distant in the Sacramento Valley) and as instructor there I will have charge of the work with students who are not able to take work on the main campus or are specializing in fields for which economics and agricultural economics are 'minor' subjects.

"I am still single, healthy and happy - - a thoroughly excellent combination I think you will agree. I am hoping that it will be possible for me to make a trip back to Ontario next summer and as you can well imagine, I will look forward with much pleasure to renewing contact with my friends in Guelph."

COLLEGE GRADUATES AMONG WINNERS

An analysis of the prize winners at the World's Grain Exhibition. reveals that the College has turned out some good showmen as well as judges.

Maurice S. Middleton of Vernon, B.C., a member of Class '12 was one of the outstanding prize winners. His accomplishments include: 1st in Foxtail Millet; 1st in Rye; 2nd in Soy Beans (other than yellow varieties); 4th in Fibre Flax; 6th in Hulless Barley; 6th in Sunflower Seed; 9th in Millet (other than Foxtail type); 10th in Six Rowed Barley (Manchurian type); 11th in Six Rowed Barley (Trebi type); 11th in Two Rowed Barley (Duckbill type); 12th in Soft Red Winter Wheat; 12th in Silver Hulled Buckwheat; 12th in Flint Corn (class 16); 13th in Two Rowed Barley (Chevalier type); 15th in White Winter Wheat; 23rd in White Spring Wheat; 33rd in Durum Wheat; 36th in Yellow Oats.



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Douglas H. Hart of Woodstock, who graduated with Class '22, took the 2nd prize in White Winter Wheat.

Ralph Moore of Norwich, an associate from 1905-07 received 2nd place for Mangel Seed and 3rd for his collection of Garden Vegetable Seeds.

W. Davidson '13 of Blenheim, Ontario, won 3rd prize for his Yellow Soy Beans.

Richard Creed of Albion, P.E.I., who graduated in 1925, was awarded 25th place for his Six Rowed Trebi Barley and 31st for his Six Rowed Barley.

These men have made a remarkable showing in competition with the best that the world can produce, and the *Review*, on behalf of the College, takes this opportunity to congratulate them upon their successes, through which they have not only brought great honour to themselves but have reflected great credit upon their Alma Mater.

UNIVERSITY VETERANS LEAGUE

On May 31st, a group of twelve University men, who had served overseas, met at dinner, and afterwards, in the green room at the Hart House, discussed the advisability of holding a re-union dinner of Veterans of all Canadian Universities or men who had served with University Units. It seemed a propitious time for it is now about fourteen years since the war ended. The idea of such a re-union emanated from George F. McKelvey, a graduate of Queen's University, who is at the present time President of the University of Toronto Overseas Company Club. His suggestion was quickly adopted, and evoked much enthusiasm from the members present. It was thought that the members attending such a re-union dinner might desire to form a permanent organization, and many plans were formulated as to what services such an organization could render to University men in particular, and the Country in general. It was decided to concentrate on a re-union dinner and to leave all plans in abeyance, so that ambitious plans about future services that might be rendered by overseas University men would not collapse of their own weight. The new organization is called the "University Veterans League."

At a subsequent meeting held in the Hart House on the 15th of June, which was attended by representatives of seven different Universities, it was announced that Sir Arthur Currie, President of McGill University, and Canadian Corps Commander, had promised to attend

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the re-union dinner which it is proposed to hold at the Royal York Hotel on Armistice night, Saturday the 11th of November next, following the Varsity-McGill rugby game, which takes place in Toronto on that date.

A number of applications for reservations for the dinner have already been received, and from present indications, a very large turnout is anticipated. Enquiries as to dinner reservations or as to the particulars relative to the organization should be directed to George F. McKelvey, Secretary of the organization, and Chairman of the Dinner and Convening Committee. Mr. McKelvey's address is: University P. O., Toronto, Ont.

CHANGES IN GRADUATE LIST, 1933

- H. L. Atkinson, '30—Is at his home R. R. No. 4, Guelph, Ont.
R. G. Baker, '05—Is now living in Empire, La., U.S.A.
M. R. Baker, '06—Is with the Entomological Branch, Department of Agriculture, Ottawa. His home address is 129 Cartier St., Ottawa.
H. L. Bamforth, '29—Is teaching in the Peterborough Collegiate Institute, Peterborough, Ont.
E. A. H. Banks, '30—Is an Assistant at the Horticultural Experiment Station, Vineland, Ont.
A. G. Beattie, '23—Who was home on leave this summer is the District Superintendent of Agriculture at Kano, Nigeria, W. Africa.
J. W. Becker, '32—Is a Chemist at the National Standard Co., Woolwich St., Guelph.
J. A. Berry, '29—Is at his home, R. R. No. 1, Dunrobin, Ont.
N. M. Blaney, '23—Is with the Union Oil Co., Monrovia, Calif. His home address is 244 N. Primrose, Monrovia, Calif.
S. S. Breckon, '23—Is Principal of the High School at Norwood, Ont.
L. C. R. Briggs, '32—Is farming at his home, R. R. No. 1, Lyn, Ont.
A. R. Burrows, '16—Is living at 100 Grange St., Guelph, Ont. He is with the manufacturing firm of A. R. Burrows & Sons.
A. N. L. Butler, '30—Completed the work for his M.S. degree at Cornell University this year. His present address is 11 Fairmont Ave., Ottawa, Ont.
J. R. Cavers, '29—Is on extension work with the Poultry Department, O. A. C., Guelph.
J. A. Charlton, '29—Is at present at his home R. R. No. 1, Paris, Ont.
H. K. Claus, '32—Is with the Walkerton Egg & Dairy Co., Walkerton.
B. M. Cohoe, '33—Is farming at R. R. No. 4, South Woodslee, Ont.
H. W. Cole, '32—Is teaching in the High School at Prescott, Ont.

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- J. R. Colquhoun, '31—Is farming at Morrisburg, Ont.
- W. J. Cowie, '31—Is a graduate student in Agricultural Economics at the University of Wales, Aberystwyth, Wales. His home address is West Grove, Merthyr, Tydfil, Wales.
- A. E. Davey, '25—Is Research Assistant in Plant Pathology, University of California Field Laboratory for Plant Pathology, Planada, Calif. He secured his Ph.D. from the University of California this year.
- E. J. Doyle, '32—Is at his home R. R. No. 6, Perth, Ont.
- A. R. G. Emslie, '28—Is a graduate student (Ph.D.) at the Rowett Institute, Aberdeen, Scotland.
- G. M. Engel, '31—Is at his home R. R. No. 1, Elmwood, Ont.
- H. L. Fair, '30—Is a Supervisor for the Relief Land Settlement Board, Kapuskasing, Ont.
- M. E. Fleming, '23—Is a parish priest in Oregon. His address is 3130 N. E. 23rd Ave., Portland, Oregon.
- H. W. Goble, '31—Is at his home R. R. No. 3, Woodstock, Ont. He completed the work of his M.S. degree in Iowa State College this year.
- W. J. Garnett, '32—Is a Rhodes Scholar at New College, Oxford University, Oxford, England. His home address is care of E. N. Garnett, Helygog, Nr. Dolgeley, North Wales.
- J. R. Gamble, '28—Is living at 606 Pennfield Ave., Upper Darby, Penn., U.S.A. He is a Casualty Insurance Agent.
- F. Gfeller, '32—Is taking graduate work in Genetics at McGill University. His address is School of Graduate Studies, McGill University, Montreal, Que.
- D. B. Goodwillie, '31—Is manager of the Walkerton Egg & Dairy Co., Walkerton, Ont.
- W. R. Graham, jr., '29—Is carrying on research work in England. His address is care of National Dairy Research, Shinfield, Nr. Reading, England. He secured the degree of Ph.D. at the University of Toronto this year.
- D. M. Haight, '33—Is taking the Animal Husbandry Specialist Course at the College. His address is Animal Husbandry Department, O. A. C., Guelph.
- E. S. Hallman, '02—Is Field Crops Fieldman for the Alberta Department of Agriculture, Parliament Buildings, Edmonton.
- L. H. Hanlon, '22—Is Fieldman for Northern Ontario for the Ontario Department of Agriculture. His address is Ontario Department of Agriculture, Kapuskasing, Ont.

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- H. R. Hare, '14—Is manager of the Lower Mainland Co-Operative Milk Producers Association. 1170 Hornby St., Vancouver, B.C.
- D. G. Hower, '30—Is teaching at the High School at Sandwich, Ont.
- G. E. Hills, '31—Is farming at Highgate, Ont.
- N. D. Hogg, '33—Is taking the Poultry Specialist Course of one year in the Poultry Department, O. A. C.
- Miss Frances Howard, '27—Is a missionary in China. Her address is care of Rt. Rev. Bishop White, Kaifeng, Honan, China.
- G. E. Howell, '31—Is at his home at 46 Dundas St., Brantford, Ont.
- H. Hull, '31—Completed his work at the Ontario College of Education this spring. He is at present at his home, 445 Willard Ave., Toronto, Ont.
- J. N. Hume, '31—Is teaching High School at Leamington, Ont.
- F. B. Hutt, '23—Is Professor of Poultry at the University of Minnesota, University Farm, St. Paul, Minn.
- F. Jerome, '33—Is taking special work in Genetics at the O. A. C., Guelph.
- S. D. de Jong, '32—Is Buttermaker for the Sutton Dairy Co., Sutton West, Ont.
- T. H. Jukes, '30—Is a National Research Council Fellow in Medicine and is taking his work in the Department of Biochemistry, University of California, Berkeley, Calif. He secured the degree of Ph.D from the University of Toronto this spring.
- E. G. Kellough, '33—Is taking the Poultry Specialist Course of one year in the Poultry Department, O. A. C., Guelph.
- E. W. Kendall, '32—Is teaching at the High School at Elmira, Ont.
- L. M. Kerr, '29—Is Agricultural Representative, Ontario Department of Agriculture, Napanee, Ont.
- F. J. King, '33—Is with Silverwood's Ltd., Lucknow, Ont.
- A. V. Langton, '30—Is farming at Waterdown, Ont.
- C. M. Learmonth, '10—Is Farm Instructor at the Institutional Farm, Weyburn, Sask.
- H. H. De Drew, '05—Who was lecturing during the winter months in the Department of Agriculture Economics, O. A. C., Guelph, is living on College Heights, Guelph.
- N. C. Lindsay, '31—Is teaching at the Stamford Collegiate, Niagara Falls, Ont.
- L. C. Long, '21—Is living at Namao, Alta.
- J. A. Longman, '24—Is teaching at the Lane Technical School, Chicago, Ill.
- W. C. MacGregor, '24—Is with the Cereal Branch, Central Experimental Farm, Ottawa, Ont.

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- E. S. Marr, '33—Is engaged in Instructional Work at the Industrial Farm at Burwash, Ont.
- D. Mackenzie, '31—Who completed his work at the Ontario College of Education is at present at the O. A. C., Guelph.
- G. Mackinney, '26—Has been awarded a National Research Fellowship and is taking his work at the Carnegie Institute of Washington, Stanford University, Palo Alto, Calif. Mackinney secured the degree of Ph.D. at the University of Calif. this year.
- D. E. MacPhee, '31—Is Agricultural Representative for Guysborough. His address is Canso, Guysborough County, N.S.
- W. G. Marritt, '17—Is Agricultural Representative, Ontario Department of Agriculture, Market St., Hamilton, Ont.
- W. C. Miller, '26—Is with Devon Dairy Co., Toronto. Home address, Apt. 16, 382 Dovercourt Rd.
- A. L. McCredie, '06—Is in Economic Research work. His address is 75 Mayfield Rd., Sanderstead, Surrey, England.
- A. McGugan, '26—Is manager of the Clinton Creamery, Clinton, Ont.
- W. A. McKenzie, '23—Who completed his work at the Ontario College of Education this spring is at his home at Thamesville, Ont.
- E. R. McClellan, '30—Is Acting Agricultural Representative, Department of Agriculture, Kingston, Ont.
- A. A. McNeil, '33—Is with the Canada Packers, Toronto, Ontario.
- J. B. Nelson, '24—Is with the Dairy Branch, Department of Agriculture, Parliament Buildings, Toronto.
- W. G. Nixon, '14—Is with the Relief Land Settlement Board, New Liskeard, Ont.
- J. W. Noble, '13—Is in the Florist Business at Kirkland Lake, Ont.
- G. R. Paterson, '24—Is with the Markets Branch, Department of Agriculture, Parliament Buildings, Toronto.
- F. Estelle Pettigrew, '31—Is living at 227 4th St. E., Owen Sound, Ont.
- W. L. Putman, '32—Is an Insect Pest Investigator with the Dominion Department of Agriculture. His address is Dominion Entomological Laboratory, Vineland Station, Ont.
- J. C. Ready, '04—Is Director of Subsistence Gardens, Illinois Emergency Relief Commission, 10 S. LaSalle St., Chicago, Ill.
- H. E. Richardson, '32—Is teaching at the Continuation School at Florence, Ont.
- A. G. Richmond, '23—Is living at 85 Burnside Drive, Toronto, Ont.
- R. C. Rosborough, '32—Who completed his work at the Ontario College of Education this spring is at his home, R. R. No. 4, Peterborough, Ont.

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College Team Second at National Dairy Congress, Waterloo, Iowa, Oct. 2, 1933

TEAM STANDINGS

- 1st Iowa State College
2nd Ontario Agricultural College

TROPHIES

- O. A. C. 1st in Holsteins: win the American Holstein-Friesian trophy
O. A. C. 1st in Guernseys: win the American Guernsey Trophy
O. A. C. 5th in Brown Swiss

INDIVIDUAL STANDING

McCaugherty, sixth in competition:

- 1st in Holsteins
5th in Brown Swiss
6th in Ayershires

Archibald, seventh in competition:

- 1st in Brown Swiss
2nd in Guernseys
10th in Jerseys

Hunter:

- 1st in Ayershires

Team composed of Art McCaugherty, Bill Archibald, Bear Hunter and Don Dalziel (spare).

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COLLEGE LIFE

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OUR LIGHT UNDER A BUSHEL

According to a leaflet issued by the Hon. Minister of Agriculture, the year 1932-33 was an outstanding one in the history of the College. No one who was present during that period will disagree with this, but at the moment it would require all the resources of a Scotland Yard detective to uncover the evidence in support of the Minister's statement.

Needless to say the College teams collected several pieces of silverware in the form of trophies during their travels, that would form very conclusive evidence of their prowess, but, with the exception of the Saddle and Sirloin Cup, which the Department of English displayed for a few weeks in the Massey Library, these have been very successfully hidden from the profane gaze of students and visitors alike.

During the past year, the O. A. C. received much favourable publicity, and earned a great deal of respect through the winnings of her student representatives, and it is only right that the College should recognize their efforts by giving their trophies a place of honour. It is the expressed wish of the Regina Team that their trophy be placed in the lobby of the Administration building, where it will be a source of pride to the students, and where it will bring credit to their Alma Mater in the eyes of her many visitors. This view is a very reasonable one, and, no doubt, one that is held by every person who has given the matter a moment's thought.

Until the proper facilities can be provided for the care of the silverware in such a public place as the lobby, however, there is no reason why the trophies cannot be rounded up from their various hiding places, dusted off and put on display in the Library.

IN COLLEGE SOCIETY

Owing to the fact that it was necessary to edit this issue of the *Review* before the College societies reorganized for their fall work, it has been impossible to include, on these pages, any definite forecast of their activities for the coming season, with the exception of the C. I. A. U. athletic schedules.

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As a matter of introducing the College social organization to the freshmen, however, it is pointed out that upon registration a student automatically becomes a member of the four major societies, namely: The Athletic Association, The Philharmonic Society, the Student Christian Association and the Union Literary Society.

Membership in these societies offer advantages to the individual that only college life can give. Physical training and expert coaching in almost any sport may be had for the asking through the Athletic Association. The Philharmonic Society places before the students a delightful series of plays during the year, that not only bring some of the outstanding stage productions to the campus, but provide many students with an opportunity to develop their dramatic and musical talents under expert guidance. Through the S. C. A's. discussion groups and services, which have become remarkably popular within the past few years, much good has been done in broadening the student's outlook on life, and last, but by no means least, the Union Literary Society, under whose auspices the inter-year debates are held during the fall term, sponsors many outstanding speakers and programmes, during the season that are long remembered as the high-lights of the year.

All these organizations, together with the clubs that will be formed by the various options, provide the students with many opportunities to gain experience in executive work, and in many cases allow them to develop talents that would otherwise be dormant.

Your college course will be just as broad as you care to make it. Everyone must start as a freshman, but there is no greater tragedy than a "freshman" in the fourth year.

STUDENTS' ACCIDENT INSURANCE

All students in Agriculture who come under the Students' Accident Insurance Plan are requested to immediately notify Mr. Baldwin, the Director of Athletics, a Team Manager or the Year Secretary, of any accident. Team Managers and Year Secretaries should immediately communicate with Mr. Baldwin. The Insurance Company insists that this action be taken if compensation is to be given.

COLLEGE JUDGES PROMINENT AT C.N.E.

Over 455 junior farmers of the Province took part in the C.N.E. judging competition on September sixth. Although not representing the College, several O. A. C. men took part in the contest and placed as follows:

Heavy Horses—1st. H. M. Taylor '34; 3rd, Emerson McKinney '36; 13th, Henry J. Leachman '36.

Sheep—8th, Vernon Bradley '34; 10th, M. A. Pinkney '33.

Beef Cattle—4th. A. C. McTaggart '35; 7th, John H. Ballantyne '36; 9th, W. J. Brodie '33 (assoc.).

Poultry—3rd. Grant Misner '35; 7th, Merrill J. Palmer '35; 12th, Bruce Teasdale '34.

Dairy Cattle—7th. A. W. Archibald '34; 10th, J. N. See '35.

Fruits and Vegetables—2nd, A. W. Archibald '34; 9th, Chas. N. Heath '34; 14th, Jerry Rattle '35.

Grain and Roots—2nd, Vernon Bradley '34; 7th, H. J. Hunter '34.

THE COLLEGE EXHIBITS

Two well-planned educational exhibits, one featuring the services rendered by the College to the Ontario farmers, and the other setting forth the advantages of growing corn and soy beans as companion crops, were constructed by the Department of Extension and set up at the Canadian National Exhibition and the Western Fair respectively.

The former display was particularly interesting in that two thirds of the space was devoted to practical demonstrations of rope splicing and trouble shooting in the binder knotter. Professor Kendall and E. G. Webb of the Department of Agricultural Engineering were in charge of the demonstrations and Gord. Wright '33 was the oracle to whom John Public went for agricultural advice.

Both exhibits called forth much favourable comment on the part of the spectators and reflected much credit upon the College.

SEEK ACADEMIC HONOURS

Saddle and Sirloin Centest

The Department of English are again sponsoring the O. A. C's. attempt to lift the Saddle and Sirloin cup for the second successive time. The subject of the fifteen hundred word essay, this year is, "The Influence of Livestock Judging Contests." It is hoped to repeat last year's triumph in which the College won the trophy awarded to the school with the highest number of points, and Jas. Cullen took the medal as high man.

Dr Stevenson has been coaching a large squad of essayists since last spring, and the prospects of successfully defending the trophy this fall with a team of twenty-five seem very bright.

DURHAM GRAIN JUDGES HONOURED

The three men who represented Durham County on the Ontario teams at the World's Grain Exhibition at Regina, were guests at a banquet given in their honour on September fifth at Orono. The group included N. D. Hogg of the College team, Maurice Baker of Hampton and Oliver Smith of Burketon, both members of the Ontario junior team. Mr. E. Summers, the Durham County Agricultural Representative coached the juniors and accompanied them on their trip to Regina.

The programme included speeches by both Dr. Christie and Prof. Squirrel, the latter being the guest speaker of the evening.

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**THE WORK OF AN AGRICUL-
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To teach agriculture is the first duty of an agricultural College as it is seen by President Christie of the O. A. C. Special arrangements may be made for the few students who desire highly technical training in advanced science, but such service can be provided by any of the Canadian universities. The aim of the Ontario College at the present time is to make better farmers out of the boys who come to its classrooms, and this is a healthy development after the period of the "scientific complex" that has prevailed in agricultural circles. Too many boys have left agricultural colleges in the past without an understanding of the relationship between science and practice, a fact that probably explains why so few returned to the farm; the hitching of science and practice, in double harness has been largely left to the other fellow. Readers will agree that the first duty of an agricultural college is to teach an understanding of farming and farm life.

*Nor' West Farmer***RHODES SCHOLAR LEAVES**

Early in August W. J. Garnett '31 left the College for England where he will spend the next three years studying Agricultural Economics at New College, Oxford.

Garnett, who has the distinction of being a Rhodes Scholar, was very fortunate in being able to secure his passage to England on a grain boat from Churchill, Manitoba, and he has promised to tell of this interesting experience in a later number of the *Review*.

CLASS '33 ISSUE FIRST BULLETIN

Year '33 have just issued their first Alumni News Letter containing all the latest "dope" on over a hundred members of the Class. The paper is indeed a worthy contribution to the world of literature if interest is the only point to be considered, and it represents a great deal of faithful work on the part of Norm. Hogg, the President, and Abe. Stoltz, the Secretary.

The Class is planning a re-union at the Royal Winter Fair so make your reservations early.

DISTINGUISHED VISITORS AT THE COLLEGE

Shortly after the close of the World's Grain Exhibition, the College was host to three distinguished gentlemen who were returning to England from the Regina Conference.

Sir Daniel Hall, former director of Rothamsted Experiment Station, present head of the John Innis Horticultural Institute of London and Chief Scientific Adviser to the Ministry of Agriculture of the United Kingdom, spent a few days at the College with Sir Albert Humphries, President of the National Association of British and Irish Millers and representative of both the Millers and the British Grain Trade, at Regina.

The third guest was Sir John Russell, the present director of Rothamsted. Sir John's visit marked the fourth occasion upon which the College has been honoured by his presence, and his very interesting address telling of the work being carried on at the Station and given before the members of the faculty, is recorded elsewhere in this issue.

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THE SUMMER SCHOOL

The annual summer course in agriculture had an enrolment of three hundred and nine school teachers this year. This school has been conducted annually since before the war, and its advantages in promoting a progressive agriculture are long past the doubtful stage. The course, which requires about five years to complete, is very intensive, and besides its strictly academic value to the teachers, it is designed to give them a well-rounded idea of farming practices and problems. This latter knowledge is very necessary, especially to country teachers, as they are required to fit in with the life of the community much more closely than are the city teachers. Hence, it is essential that they have a means of making contact with the parents of their pupils.

It is also beyond question that the rural teacher who has had his outlook broadened by the training received and the contacts made at the College, is a great factor in stimulating a better social life in his community.

The teaching of nature study, home beautification and the fundamentals behind the latest and best farming practices, are bound to raise an interest in agriculture in the minds of the pupils, that will, in time, be reflected in the homes, resulting in the quicker adoption of new ideas and increased pleasure from the home and work.

Friends of Jack Walsh '34 wish to extend their sympathy in his recent bereavement. Jack's father, who was regarded as one of the foremost agriculturists in the Maratimes, succumbed to injuries received in a motor accident, early in September.

GOOD OLD DAYS RECALLED

Old timers were given an opportunity to renew their acquaintances with the harvesting implements of their youth, at a demonstration given at Hespler, in August, by the Wellington County Historical Society. About one thousand persons attended the show, which was very complete and illustrated very strikingly the marvellous advances that have been made in farm machinery within the memory of many of the spectators.

Demonstrations of harvesting with the sickle, cradle and primitive reaper were given by some of the older men present and keen rivalry was displayed by many of the women in tying the sheaves.

The evolution of threshing equipment from the flail to the modern separator was shown by several types of old machines, all of which were in working order and were put to actual use during the afternoon. Possibly the most unique machine represented was a "Horse Power" used to drive some of the old models. Five teams hitched to the spokes of the turntable were required to move it, and once started, the dust and noise produced by both separator and power plant told volumes about the joys of threshing in the "good old days."

Many ingenious contrivances, fashioned by the pioneers out of the raw materials at hand, added greatly to the interest of the show, and it is hoped that many of them will be made available for the Historical Society's museum, a nucleus of which has already been assembled at the College.

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Half of the College teams at the World's Grain Show were coached by O. A. C. graduates.

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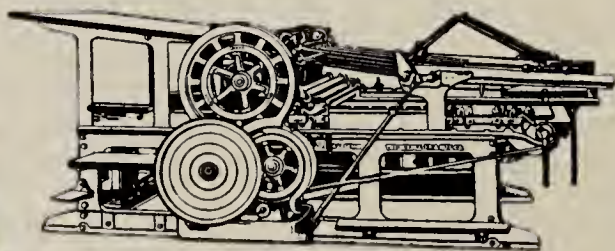
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